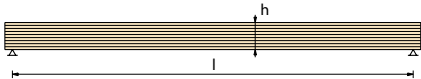
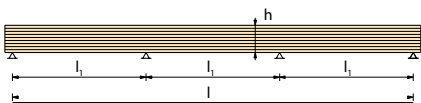
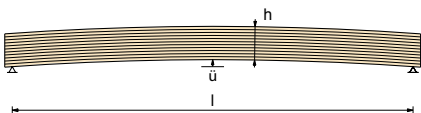
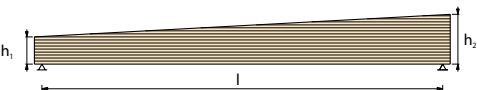
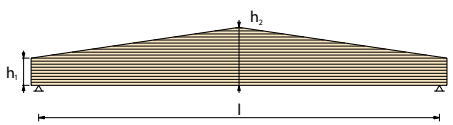
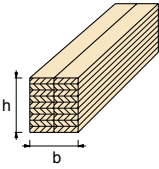
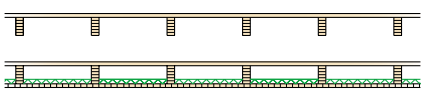
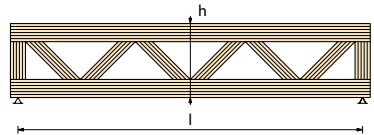
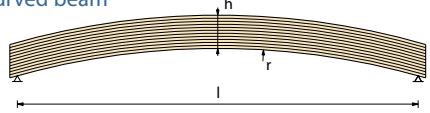
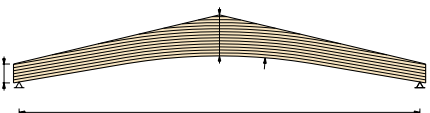
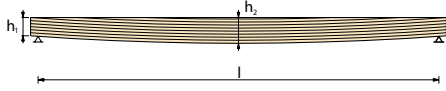
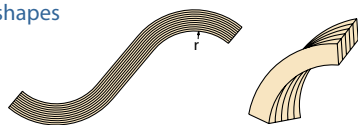
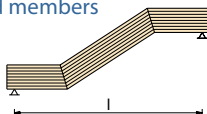
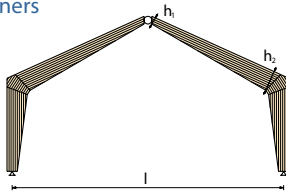
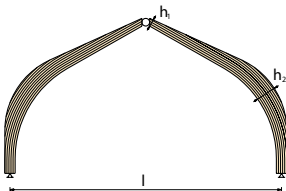
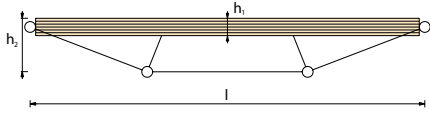
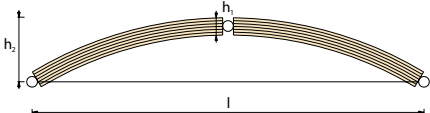


GLULAM Structural Systems

Structural systems	Spans (m)	Width (cm)	Height (cm)	Spacing (m)
<p>Parallel beam/Single span</p> 	3-36	6-28	12-230 $h = l / 16$ bis $l / 20$	1-8
<p>Parallel beam/Multiple spans</p> 	3-36	6-28	12-230 $h = l_i / 20$	1-8
<p>Parallel beam with structural camber</p> 	10-36	6-28	40-230 $h = l / 16$ bis $l / 20$	4-8
<p>Single tapered beam</p> 	10-36	10-28	$h_1 = l / 30$ $h_2 = \max 200 \text{ cm}$	2-6
<p>Double tapered beam with straight lower chord</p> 	10-36	10-28	$h_2 = l / 16$ $h_1 = l / 35$	4-8
<p>Block gluing</p> 	3-33	> 28	20-200	4-8
<p>Ribbed and box elements</p> 	5-20	100-200	20-60	-
<p>Framework trusses</p> 	20-60	12-28	100-500 $h = l / 9$	10-20

GLULAM Structural Systems

Structural systems	Spans (m)	Width (cm)	Height (cm)	Spacing (m)	Roof pitch (°)
Curved beam 	5-33	8-28	$r \geq 8 \text{ m}$ $d^* = 40 \text{ mm}$ $r < 8 \text{ m}$ $d^* = r / 200$	2-6	Note transport height and width
Double tapered beam with curved lower chord 	10-33	10-28	$h_1 = l / 24 \text{ bis } l / 32$ $h_2 = l / 16$ $r \geq 8 \text{ m}$ $d^* = 40 \text{ mm}$ $r < 8 \text{ m}$ $d^* = r / 200$	4-8	1-20° Note transport height and width
Fish-bellied beam 	20-33	10-28	$h_1 = l / 30$ $h_2 = l / 16$	4-8	-
Free shapes 	5-33	8-28	$r \geq 8 \text{ m}$ $d^* = 40 \text{ mm}$ $r < 8 \text{ m}$ $d^* = r / 200$	-	-
Finger-jointed members 	10-40	8-28	12-230 $h = l / 16 \text{ bis } l / 20$	-	-
Three-hinged system with fingerjointed frame corners 	15-40	12-28	12-28 $h_1 = l / 50$ $h_2 = l / 18$	5-10	10-60°
Three-hinged system with curved frame corners 	15-50	12-28	12-28 $h_1 = l / 50$ $h_2 = l / 18$	5-10	10-60°
Trussed systems with straight beam 	40-60	10-28	$h_1 = l / 30 \text{ bis } l / 40$ $h_2 = l / 10$ Steel or timber suspension	10-20	-
Three-hinged frame with tension chord 	20-100	10-28	$h_1 = l / 40$ $h_2 > l / 7$ Steel or timber suspension	10-20	15-45°